

## 4

**Reading to Learn Mathematics*****Proof Builder***

This is a list of key theorems and postulates you will learn in Chapter 4. As you study the chapter, write each theorem or postulate in your own words. Include illustrations as appropriate. Remember to include the page number where you found the theorem or postulate. Add this page to your Geometry Study Notebook so you can review the theorems and postulates at the end of the chapter.

| Theorem or Postulate                                    | Found on Page | Description/Illustration/Abbreviation |
|---|---------------|---------------------------------------|
| Theorem 4.1<br><i>Angle Sum Theorem</i>                 |               |                                       |
| Theorem 4.2<br><i>Third Angle Theorem</i>               |               |                                       |
| Theorem 4.3<br><i>Exterior Angle Theorem</i>            |               |                                       |
| Theorem 4.4   |               |                                       |
| Theorem 4.5<br><i>Angle-Angle-Side Congruence (AAS)</i> |               |                                       |
| Theorem 4.6<br><i>Leg-Leg Congruence (LL)</i>           |               |                                       |
| Theorem 4.7<br><i>Hypotenuse-Angle Congruence (HA)</i>  |               |                                       |

(continued on the next page)

## 4

**Reading to Learn Mathematics****Proof Builder** (continued)

| Theorem or Postulate                                      | Found on Page | Description/Illustration/Abbreviation |
|---|---------------|---------------------------------------|
| Theorem 4.8<br><i>Leg-Angle Congruence (LA)</i>           |               |                                       |
| Theorem 4.9<br><i>Isosceles Triangle Theorem</i>          |               |                                       |
| Theorem 4.10  |               |                                       |
| Postulate 4.1<br><i>Side-Side-Side Congruence (SSS)</i>   |               |                                       |
| Postulate 4.2<br><i>Side-Angle-Side Congruence (SAS)</i>  |               |                                       |
| Postulate 4.3<br><i>Angle-Side-Angle Congruence (ASA)</i> |               |                                       |
| Postulate 3.4<br><i>Hypotenuse-Leg Congruence (HL)</i>    |               |                                       |